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| APPLICATION NO.      | FILING DAT                                  | E            | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|----------------------|---|--------------|----------------------|---------------------|------------------|
| 10/626,522           | 07/25/2003                                  | }            | Yoichiro Kurita      | Q76697              | 1128             |
| 23373                | 7590 12/15/2004                             |              | EXAMINER             |                     |                  |
|                      | MION, PLLC                                  | ha, nathan w |                      |                     |                  |
| SUITE 800            | 2100 PENNSYLVANIA AVENUE, N.W.<br>SUITE 800 |              |                      | ART UNIT            | PAPER NUMBER     |
| WASHINGTON, DC 20037 |   |              |                      | 2814                |                  |

DATE MAILED: 12/15/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

|  |  | Application No.                         | Applicant(s)          |  |  |  |
|--|--|---|-----------------------|--|--|--|
| Office Action Summary  |  | 10/626,522                              | KURITA ET AL.         |  |  |  |
|  |  | Examiner                                | Art Unit              |  |  |  |
|  |  | Nathan W. Ha                            | 2814                  |  |  |  |
| Period fo  | The MAILING DATE of this communication ap<br>or Reply  | pears on the cover sheet with the c     | orrespondence address |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 1 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). |  |   |                       |  |  |  |
| Status   |  |   |                       |  |  |  |
| 1)⊠  | Responsive to communication(s) filed on 22 J   | lune 2004.                              |                       |  |  |  |
| 2a) <u></u> ☐  | This action is <b>FINAL</b> . 2b) ☐ This   | s action is non-final.                  | ·                     |  |  |  |
| 3)   | Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  |   |                       |  |  |  |
| Dispositi  | ion of Claims  |   |                       |  |  |  |
| 5)<br>6)<br>7)   | Claim(s) 1-15 is/are pending in the application.  4a) Of the above claim(s) is/are withdrawn from consideration.  Claim(s) is/are allowed.  Claim(s) is/are rejected.  Claim(s) is/are objected to.  Claim(s) 1-15 are subject to restriction and/or election requirement. |   |                       |  |  |  |
| Applicati  | ion Papers   |   |                       |  |  |  |
| 9)[  | The specification is objected to by the Examine  | er.                                     |                       |  |  |  |
| 10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.  |  |   |                       |  |  |  |
|  | Applicant may not request that any objection to the  | • | ·                     |  |  |  |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.   |  |   |                       |  |  |  |
| Priority ι   | under 35 U.S.C. § 119  |   |                       |  |  |  |
| <ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No.</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>   |  |   |                       |  |  |  |
| Attachmen  |  |   |                       |  |  |  |
| 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 4) Interview Summary (PTO-413) Paper No(s)/Mail Date   |  |   |                       |  |  |  |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  Paper No(s)/Mail Date  5) Notice of Informal Patent Application (PTO-152)  Paper No(s)/Mail Date  |  |   |                       |  |  |  |

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## **DETAILED ACTION**

## Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
  - Claims 1-6 are drawn to a bonding apparatus for a semiconductor device, classified in class 257, subclass 758.
  - II. Claims 7-15 are drawn to a bonding method of a semiconductor device, classified in class 438, subclass 118.

The inventions are distinct, each from the other because of the following reasons: Inventions II and I are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case unpatentability of the group I invention would not necessarily imply unpatentability of the group II invention, since the device of the group I invention could be made by processes materially different from those of the group II invention. For example, the bonding method as claimed can be practiced by using a method of calibration of the ultrasonic bonding apparatus without the use of control management unit as required in claim 7.

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2. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nathan W. Ha whose telephone number is (571) 272-1707. The examiner can normally be reached on M-TH 8:00-7:00(EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Wael Fahmy can be reached on (571) 272-1705. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 872-9306 for regular communications and (703) 872-9306 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

Nathan Ha

December 6, 2004